

STEREO MOC Status Report
Time Period: 2019:301 - 2019:307

STEREO Ahead (STA) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- On day 305, during the DSS-34 support, turbo decoder lock was lost briefly at 0159z, 0251z, and 0341z. This anomaly resulted in the loss of 17 frames of SSR data.
- On day 305, during the DSS-84 (ESA MLG) support, telemetry was not received in the MOC until 29 minutes after BOT due to a SLE server configuration issue at JPL. A post-track SLE offline telemetry playback recovered all of the missed data.

2. The following spacecraft/instrument events occurred during this week. The Ahead observatory operated nominally during this week.

- On day 301, the 4th IMU-2 EEPROM Refresh was executed successfully at 1425z. The IMU remained powered on for 8.5 hours after the EEPROM Refresh activity to evaluate the gyro temperature and laser intensity monitor (LIM) telemetry.
- On day 305, the 123rd momentum dump was executed successfully at 2130z, which imparted an estimated delta V of 0.094 m/sec. This was the 42nd momentum dump that did not use the IMU. After thruster operations completed, there was a 0.43 degree of roll angle error. Fine pointing stabilized 2.1 minutes after completion of the momentum dump.
- The average daily science data return for Ahead was 5.3 Gbits during this week.